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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,148	10/28/2003	Daniel Edward Bowen III	DN2001-163D03	6457	
7590 12/16/2005			EXAMINER		
The Goodyear Tire & Rubber Company Patent & Trademark Department - D/823 1144 East Market Street			CHOI, LI	CHOI, LING SIU	
			ART UNIT	PAPER NUMBER	
Akron, OH 44			1713		
			DATE MAILED: 12/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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_		Application No.	Applicant(s)			
		10/695,148	BOWEN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Ling-Siu Choi	1713			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on	.				
2a)□	This action is FINAL . 2b) This action is non-final.					
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) 1-20 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-6,8-12,14 and 16-20</u> is/are rejected.					
7)⊠	☑ Claim(s) <u>7,13 and 15</u> is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
- 3	See the attached detailed Office action for a list	of the certified copies not receive	·d.			
Attachmen	ıt(s)					
1) 🛛 Notic	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date <u>08/24/05</u> .	6) Other:	atent Application (F 10-132)			

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DETAILED ACTION

1. This Application is a Division of US Application No. 10/222,739, filed August 16, 2002. Claims 1-20 are now pending, wherein claim 1 is an independent one.

Claim Objections

Claims 7, 13, and 15 are objected to because of the following informalities: (a) claim 7 is a redundancy of claim 6; (b) claim 7 is a redundancy of claim 8; (c) claim 13, lines 1-2, "wherein the monomer" is suggested to be changed to --the modified silane moiety--; (d) claim 13, lines 4-5, "wherein X" groups can be the same or different; wherein X" represents a chemical moiety" is suggested to be deleted; and (e) claim 15, lines 1-3, "at least one member selected from the group consisting of R, R' and R" is a hydrogen atom" is suggested to be changed to --at least one of R, R' and R" is a hydrogen atom--.

Appropriate correction is required.

Allowable Subject Matter

3. Claims 1-20 are allowable over the closest references: Ender (US 3,287,291) and Nakamura et al. (US 5,973,067).

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A polymer comprising polymer chains having

at least one modified silane moiety bonded thereto,

wherein the modified silane moiety is of a structural formula selected from the group consisting of formulae 1-10 shown in claim 1

(summary of claim 1)

Ender discloses an organosilicon compound represented by the formula of Si[(OCH₂)_nOCH₃]₄ which includes Si(OCH₂OCH₃)₄, Si[(OCH₂)₅OC₄H₉]₄, Si(OCH₂OC₂H₅)(OCH₂OCH₃) (OCH₂OCH₂OC₂H₅) (OCH₂OCH₃), Si(OCH₂OCH₃)[(OCH₂)₃OCH₃] [(OCH₂)₂OCH₃] [(OCH₂)₄OCH₃] (col. 1, lines 15-20; col. 2, lines 14-26). However, Ender does not teach or fairly suggest a polymer comprising the claimed modified silane moiety.

Nakamura et al. disclose an alkenyltrialkoxysilane which can be allyltrimethoxysilane, allyltriethoxysilane, allyltriethoxysilane, butenyltrimethoxysilane, hexenyltrimethoxysilane, or hexaenyltriethoxysilane (claims 1 and 3). However, Nakamura et al. do not teach or fairly suggest a polymer comprising the claimed modified silane moiety.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

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LING-SUI CHOI PRIMARY EXAMINER

November 30, 2005

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